

(12) **United States Patent**
Niarfeix

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(54) **ROLLING-CONTACT BEARING WITH
OUTER RING IN THE FORM OF A SECTION
OF A SPHERE AND WITH A SENSOR
MEMBER**

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(2013.01); **F16C 23/084** (2013.01); **F16C**
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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

A rolling-contact bearing comprising an inner ring, an outer ring with an outer surface in the form of a section of a sphere, rolling bodies between the inner ring and the outer ring, an encoder washer constrained to rotate with the inner ring, a sensor member being designed to detect a rotation of the encoder washer, and a support member having an inner surface in the form of a section of a sphere, the inner surface being designed to be in sliding contact with the outer surface of the outer ring. The support member is designed to hold the sensor member, in relation to the encoder washer, in a position in which the sensor member can detect a rotation of the encoder washer. The sensor member includes a transponder intended to communicate wirelessly with a detector.

4 Claims, 1 Drawing Sheet

